

AMENDMENT TO THE CLAIMS:

Kindly replace the previous claim set with the claim set which appears below, in which the claims have been amended and new claims added to read as follows:

1. (Currently Amended) A cyanoacrylate composition comprising:

(i) at least one lower cyanoacrylate monomer component selected from the group consisting of ethyl cyanoacrylate [or] and methoxycyanoacrylate;

(ii) at least one higher cyanoacrylate monomer component in an amount greater than 12% by weight based on the total weight of the combination of the lower cyanoacrylate monomer and the higher cyanoacrylate monomer, and selected from the group consisting of:

n-propyl-cyanoacrylate, iso-propyl cyanoacrylate, n-butyl-cyanoacrylate, sec[.]butyl-cyanoacrylate, iso-butyl-cyanoacrylate, tert-butyl-cyanoacrylate, n-pentyl-cyanoacrylate, 1-methyl-butyl-cyanoacrylate, 1-ethyl-propyl-cyanoacrylate, neopentyl-cyanoacrylate, n-hexyl-cyanoacrylate, 1-methyl pentyl-cyanoacrylate, n-heptyl-cyanoacrylate, n-octyl-cyanoacrylate, n-nonyl-cyanoacrylate, n-decyl-cyanoacrylate, n-undecyl-

cyanoacrylate, n-dodecyl-cyanoacrylate, cyclohexyl-
cyanoacrylate, benzyl-cyanoacrylate, phenyl-cyanoacrylate,
tetrahydrofurfuryl-cyanoacrylate, allyl cyanoacrylate,
propargyl-cyanoacrylate, 2-butenyl-cyanoacrylate,
phenethyl-cyanoacrylate, chloropropyl-cyanoacrylate,
ethoxyethyl-cyanoacrylate, ethoxypropyl-cyanoacrylate,
ethoxy isopropyl-cyanoacrylate, propoxyethyl-
cyanoacrylate, isopropoxyethyl-cyanoacrylate, butoxyethyl-
cyanoacrylate, methoxypropyl-cyanoacrylate, methoxy
isopropyl-cyanoacrylate, methoxy butyl-cyanoacrylate,
propoxymethyl-cyanoacrylate, propoxy ethyl-cyanoacrylate,
propoxy propyl-cyanoacrylate, butoxymethyl-cyanoacrylate,
butoxyethyl-cyanoacrylate, butoxypropyl-cyanoacrylate,
butoxyisopropyl-cyanoacrylate, butoxy butyl-cyanoacrylate,
iso-nonyl-cyanoacrylate, iso-decyl-cyanoacrylate,
cyclohexyl methyl-cyanoacrylate, naphtyl-cyanoacrylate, 2-
(2'-methoxy)-ethoxy ethyl-cyanoacrylate, 2-(2'-ethoxy)-
ethoxy ethyl-cyanoacrylate, 2-(2'-propyloxy)-ethoxy ethyl-
cyanoacrylate, 2-(2'-butyloxy)-ethoxy ethyl-cyanoacrylate,
2-(2'-pentyloxy)-ethoxy ethyl-cyanoacrylate, 2-(2'-
hexyloxy)-ethoxy ethyl-cyanoacrylate, 2-(2'-methoxy)-
propyloxy propyl-cyanoacrylate, 2-(2'-ethoxy)-propyloxy
propyl-cyanoacrylate, 2-(2'-propyloxy)-propyloxy propyl-

cyanoacrylate, 2-(2'-pentyloxy)-propyloxy propyl-
cyanoacrylate, 2-(2'-hexyloxy)-propyloxy propyl-
cyanoacrylate, 2-(2'-methoxy)-butyloxy butyl-
cyanoacrylate, 2-(2'-ethoxy)-butyloxy butyl-cyanoacrylate,
2-(2'-butyloxy)-butyloxy butyl-cyanoacrylate, 2-(3'-
methoxy)-propyloxy ethyl-cyanoacrylate, 2-(3'-methoxy)-
butyloxy ethyl- cyanoacrylate, 2-(3'-methoxy)-propyloxy
propyl- cyanoacrylate, 2-(3'-methoxy)-butyloxy propyl-
cyanoacrylate, 2-(2'-methoxy)-ethoxy propyl-cyanoacrylate,
and 2-(2'-methoxy)-ethoxy butyl-cyanoacrylate;

(iii) at least one plasticiser component comprising at
least one ester group containing plasticiser, the plasticiser
component being miscible in a mixture of component (i) and
component (ii);

the plasticiser component being present in the composition in an
amount between about 15 to about 40% by weight of the
composition, and the plasticiser component having an A_p/P_o ratio
in the range of about 1 to less than about 6, provided the
plasticiser component does not include
pentaerythritoltetrabenzoate as the sole plasticiser.

2. (Currently Amended) A cyanoacrylate composition
comprising:

(i) at least one lower cyanoacrylate monomer component as defined in claim 1;

(ii) at least one higher cyanoacrylate monomer component as defined in claim 1; and

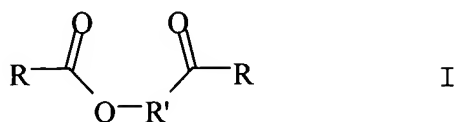
(iii) at least one plasticiser component comprising at least one ester group containing plasticiser, the plasticiser component being miscible in a mixture of component (i) and component (ii);
the plasticiser component being present in the composition in an amount between about 15 to about 40% by weight of the composition, and the plasticiser having an A_p/P_o ratio in the range of about 1.25 to less than about 6 and/or the plasticiser component comprising trimethyl [trimellithate] trimellitate.

Claims 3-24 (Cancelled).

25. (Previously Presented) A composition according to claim 2, wherein the A_p/P_o ratio of the plasticiser is in the range of about 1.25 to about 5.

26. (Previously Presented) A composition according to claim 2, wherein the plasticiser is present in an amount from about 20 to about 30% by weight of the composition.

27. (Currently Amended) A composition according to claim 2, wherein the plasticiser is a member selected from the group consisting of alkylene glycol diesters of Formula I:



wherein:

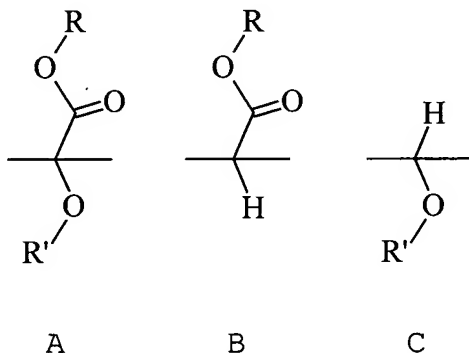
each R is independently phenyl or hydroxyphenyl;

$R' = -[(CH_2)_n-O]_m-$;

n is an integer from 1 to 4; and

m is 1 or 2;

hydroxy carboxylic acid esters wherein the structural formula of the plasticiser contains one or more moieties A or B or C below provided that it contains at least one moiety A and wherein the two remaining free valences are saturated either with -H or -CH₃:



wherein:

R is a member selected from the group consisting of -CH₃,
 -C₂H₅, -propyl, -iso-propyl, -butyl, -iso-butyl,
 -sec-butyl, [or] and -tert-butyl; and

R' is a member selected from the group consisting of
-C(O)H, -C(O)CH₃, [or] and -C(O)C₂H₅ [; and combinations],
provided that in the case of more than one R group in a
molecule, each R is independently selected from -CH₃, C₂H₅,
-propyl, -iso-propyl, -butyl, -iso-butyl, -sec-butyl, [or] and
-tert-butyl; and
provided that where there is more than one R', each R' is
independently selected from a member selected from the group
consisting of C(O)H, -C(O)CH₃, [or] and -C(O)C₂H₅.

28. (Currently Amended) A composition according to
claim 2, wherein the plasticiser is an ester of one or more
acids selected from the group consisting of isocitric acid,
tartaric acid, malic acid, lactic acid, glyceric acid [or] and
glycolic acid.

29. (Previously Presented) A composition according
to claim 2, wherein the plasticiser is a member selected from
the group consisting of: trimethyl trimellitate, diethylene
glycol dibenzoate, diethyl malonate, triethyl-O-acetyl citrate,
benzylbutyl phthalate, dipropylene glycol dibenzoate, diethyl
adipate, tributyl-O-acetyl citrate, dimethyl sebacate, and
combinations thereof.

30. (Previously Presented) A composition according
to claim 2, wherein the plasticiser is a member selected from

the group consisting of: tributyl-O-acetyl citrate, triethyl-O-acetyl citrate, dipropylene glycol dibenzoate, diethylene glycol dibenzoate and combinations thereof.

31. (Previously Presented) A composition according to claim 2, wherein the plasticiser comprises a combination of tributyl-O-acetyl citrate and triethyl-O-acetyl citrate.

32. (Previously Presented) A composition according to claim 2, wherein the higher cyanoacrylate monomer is present in an amount of at least about 15% by weight based on the combined weight of the lower cyanoacrylate monomer and the higher cyanoacrylate monomer.

33. (Previously Presented) A composition according to claim 2, wherein the higher cyanoacrylate monomer is present in an amount within the range from about 15 to about 75% by weight based on the combined weight of the lower cyanoacrylate monomer and the higher cyanoacrylate monomer.

34. (Previously Presented) A composition according to claim 2, wherein the amount of higher cyanoacrylate monomer is within the range from about 17 to about 70% by weight based on the combined weight of the lower cyanoacrylate monomer and the higher cyanoacrylate monomer.

35. (Previously Presented) A composition according to claim 2, wherein the amount of higher cyanoacrylate monomer

is within the range from about 17 to about 65% by weight based on the combined weight of the lower cyanoacrylate monomer and the higher cyanoacrylate monomer.

36. (Previously Presented) A composition according to claim 2, wherein the amount of higher cyanoacrylate monomer is within the range from about 17 to about 45% by weight based on the combined weight of the lower cyanoacrylate monomer and the higher cyanoacrylate monomer.

37. (Previously Presented) A composition according to claim 2, wherein the higher cyanoacrylate monomer is a member selected from the group consisting of n-propyl-cyanoacrylate, iso-propyl cyanoacrylate, n-butyl-cyanoacrylate, sec-butyl-cyanoacrylate, iso-butyl-cyanoacrylate, tert-butyl-cyanoacrylate, n-pentyl-cyanoacrylate, 1-methyl-butyl-cyanoacrylate, 1-ethyl-propyl-cyanoacrylate, neopentyl-cyanoacrylate, n-hexyl-cyanoacrylate, 1-methyl pentyl-cyanoacrylate, n-heptyl-cyanoacrylate, n-octyl-cyanoacrylate, n-nonyl-cyanoacrylate, n-decyl-cyanoacrylate, n-undecyl-cyanoacrylate, n-dodecyl-cyanoacrylate, cyclohexyl-cyanoacrylate, benzyl-cyanoacrylate, phenyl-cyanoacrylate, tetrahydrofurfuryl-cyanoacrylate, allyl cyanoacrylate, propargyl-cyanoacrylate, 2-butenyl-cyanoacrylate, phenethyl-cyanoacrylate, chloropropyl-cyanoacrylate, ethoxyethyl-

cyanoacrylate, ethoxypropyl-cyanoacrylate, ethoxy isopropyl-cyanoacrylate, propoxyethyl-cyanoacrylate, isopropoxyethyl-cyanoacrylate, butoxyethyl-cyanoacrylate, methoxypropyl-cyanoacrylate, methoxy isopropyl-cyanoacrylate, methoxy butyl-cyanoacrylate, propoxymethyl-cyanoacrylate, propoxy ethyl-cyanoacrylate, propoxy propyl-cyanoacrylate, butoxymethyl-cyanoacrylate, butoxyethyl-cyanoacrylate, butoxypropyl-cyanoacrylate, butoxyisopropyl-cyanoacrylate, butoxy butyl-cyanoacrylate and combinations thereof.

38. (Previously Presented) A composition according to claim 2, wherein the higher cyanoacrylate monomer is a member selected from the group consisting of isopropyl cyanoacrylate, n-butyl cyanoacrylate, sec-butyl cyanoacrylate, n-propyl cyanoacrylate, isobutyl cyanoacrylate, n-hexyl cyanoacrylate, and combinations thereof.

39. (Previously Presented) A composition according to claim 2, wherein the lower alkyl cyanoacrylate monomer is present in an amount from about 20 to about 70% by weight based on the total weight of the composition.

40. (Previously Presented) A reaction product formed by curing of a composition according to claim 2.

41. (Previously Presented) A method of production of a composition according to claim 2 comprising the step of

admixing the lower cyanoacrylate monomer, the higher cyanoacrylate monomer and the plasticiser under conditions which do not cure the composition.

42. (Previously Presented) A process of using a composition according to claim 2 to bond substrates together, comprising the steps of;

providing a first substrate;

applying the composition onto a surface of the first substrate; and

mating a second substrate with the composition-coated first substrate to form a bond therebetween after exposure to conditions appropriate to cure the composition.

43. (Previously Presented) A process of using a composition according to claim 2 to coat an article, comprising the steps of:

providing a substrate; and

applying the composition over at least a portion of the substrate to form a coating thereon after exposure to conditions appropriate to cure the composition.

44. (Previously Presented) An assembly formed by applying a composition according to claim 2 to at least a portion of a surface of a substrate and bonding a second

substrate thereto by mating the substrates under conditions appropriate to cure the composition.

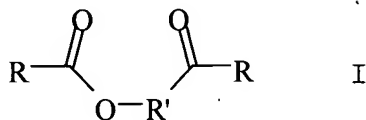
45. (Previously Presented) A coated article formed by applying a composition according to claim 2 to at least a portion of a surface of the article to form a coating and exposing the composition to conditions appropriate to cure the composition.

46. (New) An article according to claim 45, wherein the entire surface of the article is coated.

47. (New) A composition according to claim 1, wherein the Ap/Po ratio of the plasticiser is in the range of about 1.25 to about 5.

48. (New) A composition according to claim 1, wherein the plasticiser is present in an amount from about 20 to about 30% by weight of the composition.

49. (New) A composition according to claim 1, wherein the plasticiser is selected from the group consisting of alkyleneglycol diesters of Formula I:



wherein:

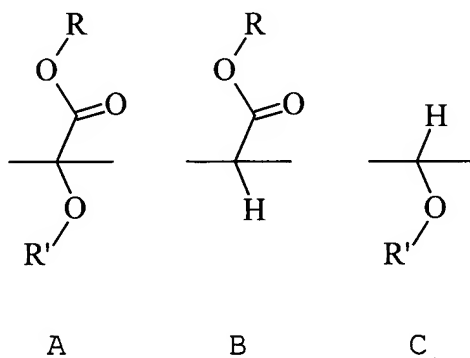
each R is independently phenyl or hydroxyphenyl;

$R' = -[(CH_2)_n-O]_m-$;

n is an integer from 1 to 4; and

m is 1 or 2;

hydroxy carboxylic acid esters wherein the structural formula of the plasticiser contains one or more moieties A or B or C below provided that it contains at least one moiety A and wherein the two remaining free valences are saturated either with -H or -CH₃:



wherein:

R is a member selected from the group consisting of -CH₃, -C₂H₅, -propyl, -iso-propyl, -butyl, -iso-butyl, -sec-butyl, and -tert-butyl; and

R' is a member selected from the group consisting of -C(O)H, -C(O)CH₃, and -C(O)C₂H₅, provided that in the case of more than one R group in a molecule, each R is independently

selected from the group consisting of $-CH_3$, C_2H_5 , -propyl, -isopropyl, -butyl, -iso-butyl, -sec-butyl, and -tert-butyl; and provided that where there is more than one R' , each R' is independently selected from the group consisting of $-C(O)H$, $-C(O)CH_3$, and $-C(O)C_2H_5$.

50. (New) A composition according to claim 1, wherein the plasticiser is an ester of one or more acids selected from the group consisting of isocitric acid, tartaric acid, malic acid, lactic acid, glyceric acid and glycolic acid.

51. (New) A composition according and claim 1, wherein the plasticiser is a member selected from the group consisting of: trimethyl trimellitate, diethylene glycol dibenzoate, diethyl malonate, triethyl-O-acetyl citrate, benzylbutyl phthalate, dipropylene glycol dibenzoate, diethyl adipate, tributyl-O-acetyl citrate, dimethyl sebacate, and combinations thereof.

52. (New) A composition according to claim 1, wherein the plasticiser is a member selected from the group consisting of: tributyl-O-acetyl citrate, triethyl-O-acetyl citrate, dipropylene glycol dibenzoate, diethylene glycol dibenzoate and combinations thereof.

53. (New) A composition according to claim 1, wherein the plasticiser component comprises a combination of tributyl-O-acetyl citrate and triethyl-O-acetyl citrate.

54. (New) A composition according to claim 1, wherein the higher cyanoacrylate monomer is present in an amount of at least about 15% by weight based on the combined weight of the lower cyanoacrylate monomer component and the higher cyanoacrylate monomer.

55. (New) A composition according to claim 1, wherein the higher cyanoacrylate monomer is present in an amount within the range from about 15 to about 75% by weight based on the combined weight of the lower cyanoacrylate monomer and the higher cyanoacrylate monomer.

56. (New) A composition according to claim 1, wherein the amount of higher cyanoacrylate monomer is within the range from about 17 to about 70% by weight based on the combined weight of the lower cyanoacrylate monomer and the higher cyanoacrylate monomer.

57. (New) A composition according to claim 1, wherein the amount of higher cyanoacrylate monomer is within the range from about 17 to about 65% by weight based on the combined weight of the lower cyanoacrylate monomer and the higher cyanoacrylate monomer.

58. (New) A composition according to claim 1, wherein the amount of higher cyanoacrylate monomer is within the range from about 17 to about 45% by weight based on the combined weight of the lower cyanoacrylate monomer and the higher cyanoacrylate monomer.

59. (New) A composition according to claim 1, wherein the higher cyanoacrylate monomer is a member selected from the group consisting of n-propyl-cyanoacrylate, iso-propyl cyanoacrylate, n-butyl-cyanoacrylate, sec-butyl-cyanoacrylate, iso-butyl-cyanoacrylate, tert-butyl-cyanoacrylate, n-pentyl-cyanoacrylate, 1-methyl-butyl-cyanoacrylate, 1-ethyl-propyl-cyanoacrylate, neopentyl-cyanoacrylate, n-hexyl-cyanoacrylate, 1-methyl pentyl-cyanoacrylate, n-heptyl-cyanoacrylate, n-octyl-cyanoacrylate, n-nonyl-cyanoacrylate, n-decyl-cyanoacrylate, n-undecyl-cyanoacrylate, n-dodecyl-cyanoacrylate, cyclohexyl-cyanoacrylate, benzyl-cyanoacrylate, phenyl-cyanoacrylate, tetrahydrofurfuryl-cyanoacrylate, allyl cyanoacrylate, propargyl-cyanoacrylate, 2-butenyl-cyanoacrylate, phenethyl-cyanoacrylate, chloropropyl-cyanoacrylate, ethoxyethyl-cyanoacrylate, ethoxypropyl-cyanoacrylate, ethoxy isopropyl-cyanoacrylate, propoxyethyl-cyanoacrylate, isopropoxyethyl-cyanoacrylate, butoxyethyl-cyanoacrylate, methoxypropyl-cyanoacrylate, methoxy isopropyl-cyanoacrylate, methoxy butyl-

cyanoacrylate, propoxymethyl-cyanoacrylate, propoxy ethyl-cyanoacrylate, propoxy propyl-cyanoacrylate, butoxymethyl-cyanoacrylate, butoxyethyl-cyanoacrylate, butoxypropyl-cyanoacrylate, butoxyisopropyl-cyanoacrylate, butoxy butyl-cyanoacrylate and combinations thereof.

60. (New) A composition according to claim 1, wherein the higher cyanoacrylate monomer is a member selected from the group consisting of isopropyl cyanoacrylate, n-butyl cyanoacrylate, sec-butyl cyanoacrylate, n-propyl cyanoacrylate, isobutyl cyanoacrylate, n-hexyl cyanoacrylate, and combinations thereof.

61. (New) A composition according to claim 1, wherein the lower alkyl cyanoacrylate monomer is present in an amount from about 20 to about 70% by weight based on the total weight of the composition.

62. (New) A reaction product formed by curing of a composition according to claim 1.

63. (New) A method of production of a composition according to claim 1 comprising the step of admixing the lower cyanoacrylate component, the higher cyanoacrylate component and the plasticiser component under conditions which do not cure the composition.

64. (New) A process of using a composition according to claim 1 to bond substrates together, comprising the steps of:

providing a first substrate;

applying the composition onto a surface of the first substrate; and

mating a second substrate with the composition-coated first substrate to form a bond therebetween after exposure to conditions appropriate to cure the composition.

65. (New) A process of using a composition according to claim 1 to coat an article, comprising the steps of:

providing a substrate; and

applying the composition over at least a portion of the substrate to form a coating thereon after exposure to conditions appropriate to cure the composition.

66. (New) An assembly formed by applying a composition according to claim 1 to at least a portion of a surface of a substrate and bonding a second substrate thereto by mating the substrates under conditions appropriate to cure the composition.

67. (New) A coated article formed by applying a composition according to claim 1 to at least a portion of a surface of the article to form a coating and exposing the composition to conditions appropriate to cure the composition.